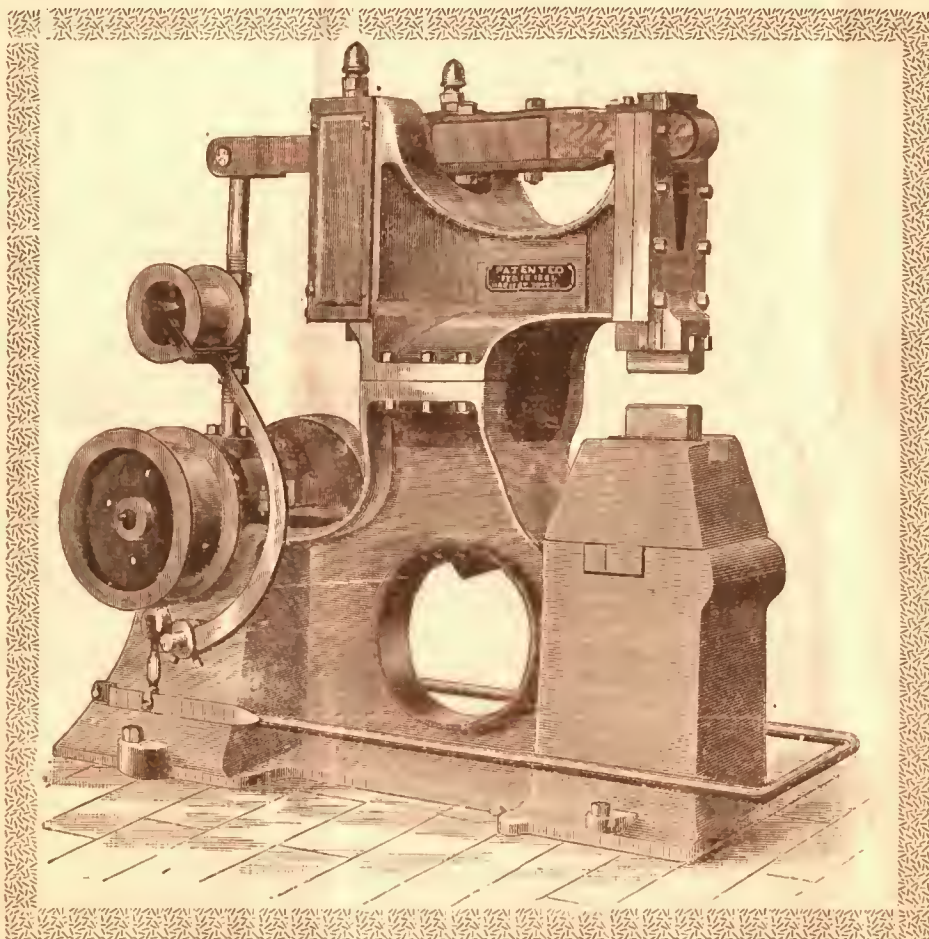


Jenkins' Upright Cushioned
HELVE HAMMER.



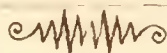
JENKINS & LINGLE,
SOLE MANUFACTURERS,
BELLEFONTE, PENNA., U. S. A.



HERE is probably no other machine that is subject to as severe and destructive duty as a power hammer and in consequence of this it is evident that the quality of durability should enter largely into its design and construction. To obtain durability in any machine it is necessary that *simplicity* should govern its make up and the number of



MOVING PARTS REDUCED TO THE MINIMUM,



and these should be so made as to offer the greatest resistance to wear and breakage.

A glance at the illustration in this circular will prove at once that these

REQUIREMENTS ARE FULFILLED

The operating parts are reduced to four in number, the crank shaft, helve, connecting rod and ram or head. The ram is held and guided throughout its movement in fixed vertical slides so that it strikes always square and in the same place, being therefore suitable for all work and all class of forgings requiring accurate adjustment of the dies. The helve is a plain wood beam provided with metallic bearings and connections. This construction of helve we arrived at after years of experiment with iron, steel, bronze, steel springs, leather straps and every imaginable method that would tend to produce good results together with durability. We would ask

Particular Attention

to this matter. It will be seen that the helve, while operating to move the ram up and down, is not connected or fastened to it in any manner. The end of the helve simply enters loosely into an opening in the ram. The result of this simple arrangement is to entirely dispense with any such parts as leather straps, steel springs or any

compensating connection at this point that is so extremely subject to wear and tear. Our arrangement is if anything an improvement on the blow or stroke of the hammer.

In order that the ram shall have the necessary elasticity, there are placed immediately at the fulcrum of the helve four rubber cushions, two being placed above and two below the fulcrum bearing. This gives

ALL THE ELASTICITY NEEDED

and dispenses with the use of jointed helves operating on a fixed fulcrum. The amount of spring or elasticity can be adjusted by the two bolts passing up through the cushions. The connecting rod is strong and substantial having right and left threaded sleeve nut to adjust it for length.

The crank shaft is provided with driving pulley and fly wheel, on releasing the treadle a brake operates on the latter to stop the hammer. The force or strength of the blow is regulated by the treadle operated by the foot of the workman. The construction of the main frame together with the anvil block is such that expensive foundations are not necessary.

If it were possible we would like to describe the working qualities but the hammer must be seen at work to appreciate its usefulness.

It will forge anything up to its capacity with

PRECISION, RAPIDITY AND ECONOMY

They are in use for almost every variety of work and we broadly claim that it is the

BEST HAMMER MADE.

In the table giving the capacity etc., we would say that the work named is easily within the range of the respective size of hammer and heavier work can be done.

Our hammer gives a perfect blow that is perfectly cushioned. There are no complicated parts like valves, pistons, stuffing boxes, springs, straps or any similar parts to give trouble. We offer the hammer after more than eight years experience with the full assurance that it will fully meet all the requirements demanded.

Some * Users * of * These * Hammers :



Jacob Rech & Son, 728 Girard Ave., . . Phila.
 Cox & Son, Philadelphia.
 Western Block Co., Lockport, N. Y.
 Wm. J. Agar, Lockport, N. Y.
 Terra Haute Car & Mfg. Co., Terra Haute, Ind.
 Van Brunt & Davis Co., . . . Horicon, Wis.
 Champion Bridge Co., Wilmington, O.
 The Fulton Tool & Mfg. Co., Canal Fulton, O.
 Wilcox Mfg. Co., Howard, Pa.
 Valentine Iron Co., Bellefonte, Pa.
 Jones & Landon, Philipsburg, Pa.
 Harrisburg Rolling Mill Co., Harrisburg, Pa.
 C. W. Melcher Machinery Co., St. Louis, Mo.
 Penna. Steel Co., Sparrows Point, Md.
 Penna. Steel Co., Steelton, Pa.
 Rice Coil Spring Co., St. Louis, Mo.
 National Tube Works Co., McKeesport, Pa.
 Hubbard, Bakewell & Co., Pittsburg, Pa.
 Erie City Iron Works, Erie, Pa.
 W. S. Frazier & Co., Aurora, Ill.
 Sidney Steel Scraper Co., Sidney, O.
 H. C. Pingree, Pigeon Cove, Mass.
 Crowe Spring Mfg. Co., South Park, Kan.
 Johnston & Co., Northumberland, Pa.
 Clark & Co. Carriage Works Lansing, Mich.
 Geo. Davis, Snow Shoe, Pa.
 J. W. Blake, Roaring Springs, Pa.
 Wilkes-Barre Iron Fence and Screen Co.,
 Wilkes-Barre, Pa.
 Rice Coil Spring Co., Pittston, Pa.
 Ohio Tool Co., Columbus, O.

Piedmont Wagon Co., . . Hickory, N. C.
 Wm. McKinna, Rockaway, N. J.
 W. P. Rend & Co., Chicago, Ill.
 Sheriff Machinery Co., Pittsburg, Pa.
 Ramsey Mfg. Co., Detroit, Mich.
 W. A. Sanberg, Sweden.
 Pennock Bros., Minerva, O.
 W. H. Crossman & Bro. N. Y. (Hammer
 exported.)

National Tubular Axle Co., McKeesport, Pa.
 Tacony Iron and Metal Co., . . Tacony, Pa.
 Jno. & Jas. Dobson, Falls of Schuylkill, Phila.
 Knickerbocker Ice Co., Philadelphia.
 Carnegie Bros. & Co., Limited, Pittsburg, Pa.
 Sidney Pole & Shaft Co., Sidney, O.
 P. F. Burke, 360 Dorchester St. Boston, Mass.
 Union City Carriage Mfg. Co. Union City, Ind.
 Jas. T. Armstrong Co., Baltimore, Md.
 L. Rodenhausen, Philadelphia.
 Job T. Pugh, Philadelphia.
 Buffalo Smelting Co., Buffalo.
 Link Belt Engineering Co., Nicetown, Phila.
 J. N. Kunkle & Son, Baltimore, Md.
 Continental Tube Works,
 Waldron & Sprout, Muncy, Pa.
 Altoona Mfg. Co., Altoona, Pa.
 F. M. Walker, Oak Ridge, Pa.
 A. Mecky, Germantown, Pa.
 Schall & King, Middletown, Pa.
 Schall & King, York, Pa.
 Novelty Mfg. Co., York, Pa.



Weight of Ram in Pounds.	Diameter of Driving Pulley.	Width of Double Leath Belt	Estimated Power Required.	Number of Strokes per Minute.	Total Weight Lounds.	Will Work Round Iron.	Will Draw Bars at One Heat,
25 lbs.	12 inch	3 inch	$\frac{3}{4}$ H. P.	350	2000	1 in. Dia.	Will draw out Bars 1 in dia 6 in long 24 in long.
40 "	12 "	$3\frac{1}{2}$ "	1 "	350	2200	$1\frac{1}{8}$ "	" $1\frac{1}{8}$ " 6 " 24 "
50 "	12 "	4 "	$1\frac{1}{2}$ "	325	2600	$1\frac{1}{4}$ "	" $1\frac{1}{4}$ " 6 " 24 "
60 "	16 "	$4\frac{1}{2}$ "	2 "	300	3800	$1\frac{1}{2}$ "	" $1\frac{1}{2}$ " 6 " 24 "
80 "	16 "	5 "	2 "	275	4100	2 "	" 2 " 6 " 24 "
100 "	16 "	5 "	$2\frac{1}{2}$ "	275	4300	$2\frac{1}{4}$ "	" $2\frac{1}{4}$ " 6 " 24 "
125 "	20 "	$5\frac{1}{2}$ "	$2\frac{3}{4}$ "	0	5800	$2\frac{3}{4}$ "	" $2\frac{3}{4}$ " 6 " 24 "
150 "	20 "	6 "	3 "	250	6500	3 "	" 3 " 6 " 24 "

OF () OF ()

A detailed illustration of a large industrial machine, possibly a steam engine or pump. It features a large flywheel on the left side, a complex arrangement of pipes and valves on the right, and a large cylindrical body in the center. The machine is mounted on a sturdy base. The illustration is in a sepia or brownish tone, typical of early 20th-century technical drawings.

HAMMER

25	POUND RAM,		-	-	-	-	-	-	-	\$300
40	"	"			-	-	-	-	-	325
50	"	"	-	-	-	-	-	-	-	400
60	"	"	-	-	-	-	-	-	-	450
80	"	"	-	-	-	-	-	-	-	500
100	"	"	-	-	-	-	-	-	-	550
125	"	"	-	-	-	-	-	-	-	600
150	"	"	-	-	-	-	-	-	-	650
200	"	"	-	-	-	-	-	-	-	750

EVERY HAMMER IS SET UP AND TESTED BEFORE LEAVING OUR WORKS.

PRICES ON APPLICATION.

MANUFACTURED BY JENKINS & LINGLE, Bellefonte. Pa.